

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/GB2004/003012

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 F16J15/34 F16C17/06

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 F16J F16C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 399 024 A (SHAPIRO) 21 March 1995 (1995-03-21)	1-13, 15, 16, 20, 21, 25-39, 43-46
A	the whole document -----	25
X	FR 2 113 492 A (VEB) 23 June 1972 (1972-06-23) the whole document -----	1, 14-18, 22-24
X	US 2 137 487 A (HALL) 22 November 1938 (1938-11-22) the whole document -----	1, 14-19, 22-24
X	US 6 435 822 B1 (KOBAYASHI ET AL) 20 August 2002 (2002-08-20) abstract; figures -----	47, 48

Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

### \* Special categories of cited documents :

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- "O" document referring to an oral disclosure, use, exhibition or other means
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- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
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Date of the actual completion of the international search

27 September 2004

Date of mailing of the International search report

04/10/2004

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# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/GB2004/003012

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
US 5399024	A	21-03-1995	NONE		
FR 2113492	A	23-06-1972	CH CS DE FR SU	554502 A 157732 B2 2143684 A1 2113492 A5 486159 A1	30-09-1974 16-09-1974 10-05-1972 23-06-1972 30-09-1975
US 2137487	A	22-11-1938	NONE		
US 6435822	B1	20-08-2002	JP US US	11013688 A 6302645 B1 6039535 A	19-01-1999 16-10-2001 21-03-2000